

OCT 23 2006

PATENT

Serial No. 10/538,628

Amendment in Reply to Office Action mailed on August 22, 2006

NEW ABSTRACT

A repetitive controller for suppressing periodic signals with half-wave symmetry includes a memory loop fed with a periodic signal of period NT and in which the memory size includes $N/2$ memory elements. A negative feedback connection is provided and a factor of $-1/2$ is provided at the output of the memory loop. Such a repetitive controller may be used for instance in the disturbance compensation module of a drive servo system in a recording and reproducing apparatus including a head for recording data on a recording medium.

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IN THE ABSTRACT

Please delete the current Abstract in its entirety and
substitute therefor the enclosed New Abstract.